

WEST Search History

DATE: Thursday, March 30, 2006

Hide?	<u>Set</u> <u>Name</u>	<u>Query</u>	<u>Hit</u> <u>Count</u>
		<i>DB=PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD; PLUR=YES; OP=ADJ</i>	
<input type="checkbox"/>	L52	L48 and (((amplitude) with (modulation or modifying or modified or chang\$4 or adjust\$4 or alter\$3 or modulat\$4 or correct\$4 or compensat\$4) or "AM")) with (("without" or "no" or non or zero or none or "off") with (phase with encod\$3)))	0
<input type="checkbox"/>	L51	L50 and (((amplitude) with (modulation or modifying or modified or chang\$4 or adjust\$4 or alter\$3 or modulat\$4 or correct\$4 or compensat\$4) or "AM")) with (("without" or "no" or non or zero or none or "off") with (phase with encod\$3)))	0
<input type="checkbox"/>	L50	L49 and (("without" or "no" or non or zero or none or "off") with (phase with encod\$3))	5
<input type="checkbox"/>	L49	L48 and (correct\$4 or compensat\$4)	8
<input type="checkbox"/>	L48	L46 and (phase with encod\$3)	9
<input type="checkbox"/>	L47	L46 and (((correct\$4 or compensat\$4) with (acquir\$4 or obtain\$4 or collect\$4 or gather\$4) with (k-space or kspace or "k space" or "kx" or "ky" or "kz" or "k.sub.x" or "k.sub.y" or "k.sub.z" or raw) with (data or echo or signal)) with (((amplitude or intensity or magnitude or peek or peak) with (modulation or modulating or modulate or modify or modifying or modified or chang\$4 or adjust\$4 or alter\$3 or vary or varied or varying or variable)) or "AM"))	0
<input type="checkbox"/>	L46	L45 and (((amplitude or intensity or magnitude or peek or peak) with (modulation or modulating or modulate or modify or modifying or modified or chang\$4 or adjust\$4 or alter\$3 or vary or varied or varying or variable)) or "AM") with ((fast with spin with echo) or fse))	9
<input type="checkbox"/>	L45	L44 and ((fast with spin with echo) or fse)	198
<input type="checkbox"/>	L44	L43 and (k-space or kspace or "k space" or "kx" or "ky" or "kz" or "k.sub.x" or "k.sub.y" or "k.sub.z" or raw)	1359
<input type="checkbox"/>	L43	L42 and (((amplitude or intensity or magnitude or peek or peak) with (modulation or modulating or modulate or modify or modifying or modified or chang\$4 or adjust\$4 or alter\$3 or vary or varied or varying or variable)) or "AM")	6121
<input type="checkbox"/>	L42	((324/300-322.ccls.) or (600/407-435.ccls.) or (382/128-131.ccls.) or (335/296-306.ccls.))	23157
<input type="checkbox"/>	L41	L31 and (((correct\$4 or compensat\$4) with (acquir\$4 or obtain\$4 or collect\$4 or gather\$4) with (k-space or kspace or "k space" or "kx" or "ky" or "kz" or "k.sub.x" or "k.sub.y" or "k.sub.z" or raw) with (data or echo or signal)) with (((amplitude or intensity or magnitude or peek or peak) with (modulation or modulating or modulate or modify or modifying or modified or chang\$4 or adjust\$4 or alter\$3 or vary or varied or varying or variable)) or "AM"))	4

<input type="checkbox"/>	L40	L32 and (((correct\$4 or compensat\$4) with (acquir\$4 or obtain\$4 or collect\$4 or gather\$4) with (k-space or kspace or "k space" or "kx" or "ky" or "kz" or "k.sub.x" or "k.sub.y" or "k.sub.z" or raw) with (data or echo or signal)) with (((amplitude or intensity or magnitude or peek or peak) with (modulation or modulating or modulate or modify or modifying or modified or chang\$4 or adjust\$4 or alter\$3 or vary or varied or varying or variable)) or "AM"))))	0
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<input type="checkbox"/>	L36	L35 and ((correct\$4 or compensat\$4) with (acquir\$4 or obtain\$4 or collect\$4 or gather\$4) with (data or echo or signal))	3
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<input type="checkbox"/>	L33	L32 and (Fourier or "ft" or "FFT")	9
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<input type="checkbox"/>	L29	((amplitude or intensity or magnitude or peek or peak) with (modulation or modulating or modulate or modify or modifying or modified or chang\$4 or adjust\$4 or alter\$3 or vary or varied or varying or variable)) or "AM")	1734304
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<input type="checkbox"/>	L23	L22 and (phase with (modulation or modifying or modified or chang\$4 or adjust\$4 or alter\$3 or modulat\$4 or correct\$4 or compensat\$4))	11
<input type="checkbox"/>	L22	L21 and (phase with encod\$3)	12
<input type="checkbox"/>	L21	L18 and (((amplitude) with (modulation or modifying or modified or chang\$4 or adjust\$4 or alter\$3 or modulat\$4 or correct\$4 or compensat\$4) or "AM")) with (k-space or kspace or "k space" or "kx" or "ky" or "kz" or "k.sub.x" or "k.sub.y" or "k.sub.z" or raw))	16
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<input type="checkbox"/>	L17	L16 and (((amplitude) with (modulation or modifying or modified or chang\$4 or adjust\$4 or alter\$3 or modulat\$4 or correct\$4 or compensat\$4) or "AM"))	376
<input type="checkbox"/>	L16	L15 and (amplitude)	598
<input type="checkbox"/>	L15	((fast with spin with echo) or fse)	2959
<input type="checkbox"/>	L14	L13 and (phase with encod\$3)	1
<input type="checkbox"/>	L13	(6265873)! [pn]	2
<input type="checkbox"/>	L12	L11 and (correct\$4 or compensat\$4)	5
<input type="checkbox"/>	L11	L10 and (Fourier or "ft" or "FFT")	5
<input type="checkbox"/>	L10	L9 and (((amplitude with (modulation or modifying or modified or chang\$4 or adjust\$4 or alter\$3 or modulat\$4)) or "AM") with ((fast with spin with echo) or fse))	5
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<input type="checkbox"/>	L7	((amplitude with (modulation or modifying or modified or chang\$4 or adjust\$4 or alter\$3 or modulat\$4)) or "AM")	1374058
<input type="checkbox"/>	L6	L5 and (correct\$4 or compensat\$4)	3
<input type="checkbox"/>	L5	L4 and (Fourier or "ft" or "FFT")	3
<input type="checkbox"/>	L4	L3 and (((amplitude with (modulation or modifying or modified or chang\$4 or adjust\$4 or alter\$3)) or "AM") with ((fast with spin with echo) or fse))	3
<input type="checkbox"/>	L3	L2 and (k-space or kspace or "k space" or "kx" or "ky" or "kz" or "k.sub.x" or "k.sub.y" or "k.sub.z" or raw)	126
<input type="checkbox"/>	L2	L1 and ((fast with spin with echo) or fse)	546
<input type="checkbox"/>	L1	((amplitude with (modulation or modifying or modified or chang\$4 or adjust\$4 or alter\$3)) or "AM")	1315856

END OF SEARCH HISTORY

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Search Results - Record(s) 1 through 2 of 2 returned.

☐ 1. Document ID: US 5578923 A

Using default format because multiple data bases are involved.

L37: Entry 1 of 2

File: USPT

Nov 26, 1996

US-PAT-NO: 5578923

DOCUMENT-IDENTIFIER: US 5578923 A

TITLE: T2 restoration and noise suppression of hybrid MR images using wiener and linear prediction techniques

DATE-ISSUED: November 26, 1996

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Chen; Haiguang	San Francisco	CA		

US-CL-CURRENT: 324/309; 128/925

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	DOC	Draw. D.
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☐ 2. Document ID: US 5517122 A

L37: Entry 2 of 2

File: USPT

May 14, 1996

US-PAT-NO: 5517122

DOCUMENT-IDENTIFIER: US 5517122 A

TITLE: T2 restoration and noise suppression of hybrid MR images using Wiener and linear prediction techniques

DATE-ISSUED: May 14, 1996

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Chen; Haiguang	San Francisco	CA		

US-CL-CURRENT: 324/322; 324/307

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	DOC	Draw. D.
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Term	Documents
K-SPACE	2188
K-SPACES	36
KSPACE	51
KSPACES	2
"K SPACE"	0
KX	5847
KXES	20
KY	50102
KIES	989
KYS	253
KZ	661216
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Search Results - Record(s) 1 through 9 of 9 returned.

☐ 1. Document ID: US 6700375 B2

Using default format because multiple data bases are involved.

L48: Entry 1 of 9

File: USPT

Mar 2, 2004

US-PAT-NO: 6700375

DOCUMENT-IDENTIFIER: US 6700375 B2

TITLE: MRI method and apparatus using independent gradient magnetic field spoiler pulses

DATE-ISSUED: March 2, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Machida; Yoshio	Nasu-gun			JP
Sugiura; Satoshi	Otawara			JP
Kassai; Yoshimori	Nasu-gun			JP

US-CL-CURRENT: [324/314](#); [324/309](#)

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	WMC	Draw. U.
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☐ 2. Document ID: US 6456071 B1

L48: Entry 2 of 9

File: USPT

Sep 24, 2002

US-PAT-NO: 6456071

DOCUMENT-IDENTIFIER: US 6456071 B1

TITLE: Method of measuring the magnetic resonance (=NMR) by means of spin echos

DATE-ISSUED: September 24, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Hennig; Jurgen	Freiburg			DE

US-CL-CURRENT: [324/307](#); [324/309](#), [324/311](#)

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	WMC	Draw. U.
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☐ 3. Document ID: US 6043654 A

L48: Entry 3 of 9

File: USPT

Mar 28, 2000

US-PAT-NO: 6043654

DOCUMENT-IDENTIFIER: US 6043654 A

TITLE: Multi-volume slicing and interleaved phase-encoding acquisition for 3 D fast spin echo (FSE)

DATE-ISSUED: March 28, 2000

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Liu; Kecheng	Solon	OH		
Xu; Yansun	Solon	OH		
Loncar; Mark J.	Richmond Heights	OH		

US-CL-CURRENT: 324/309; 324/306

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	RMK	Draw D
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☐ 4. Document ID: US 5779636 A

L48: Entry 4 of 9

File: USPT

Jul 14, 1998

US-PAT-NO: 5779636

DOCUMENT-IDENTIFIER: US 5779636 A

TITLE: Method of echo volume imaging and MRI system using the same

DATE-ISSUED: July 14, 1998

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Kanazawa; Hitoshi	Nasu-Gun			JP

US-CL-CURRENT: 600/410; 324/309

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	RMK	Draw D
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☐ 5. Document ID: US 5578923 A

L48: Entry 5 of 9

File: USPT

Nov 26, 1996

US-PAT-NO: 5578923

DOCUMENT-IDENTIFIER: US 5578923 A

TITLE: T2 restoration and noise suppression of hybrid MR images using wiener and linear prediction techniques

DATE-ISSUED: November 26, 1996

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Chen; Haiguang	San Francisco	CA		

US-CL-CURRENT: 324/309; 128/925

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	FIGS	Draw D.
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☐ 6. Document ID: US 5517122 A

L48: Entry 6 of 9

File: USPT

May 14, 1996

US-PAT-NO: 5517122

DOCUMENT-IDENTIFIER: US 5517122 A

TITLE: T2 restoration and noise suppression of hybrid MR images using Wiener and linear prediction techniques

DATE-ISSUED: May 14, 1996

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Chen; Haiguang	San Francisco	CA		

US-CL-CURRENT: 324/322; 324/307

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	FIGS	Draw D.
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☐ 7. Document ID: US 5345176 A

L48: Entry 7 of 9

File: USPT

Sep 6, 1994

US-PAT-NO: 5345176

DOCUMENT-IDENTIFIER: US 5345176 A

TITLE: Stabilized fast spin echo NMR pulse sequence with improved slice selection

DATE-ISSUED: September 6, 1994

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
LeRoux; Patrick L.	Gif/Yvette			FR
Hinks; Richard S.	Waukesha	WI		

US-CL-CURRENT: 324/309

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	FIGS	Draw D.
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☐ 8. Document ID: US 5315249 A

L48: Entry 8 of 9

File: USPT

May 24, 1994

US-PAT-NO: 5315249

DOCUMENT-IDENTIFIER: US 5315249 A

TITLE: Stabilized fast spin echo NMR pulse sequence

DATE-ISSUED: May 24, 1994

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Le Roux; Patrick L.	Gif/Yvette			FR
Hinks; Richard S.	Waukesha	WI		

US-CL-CURRENT: 324/309; 324/307

Full	Title	Citation	Front	Review	Classification	Date	Reference		Claims	KMC	Draw D.
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☐ 9. Document ID: US 4684891 A

L48: Entry 9 of 9

File: USPT

Aug 4, 1987

US-PAT-NO: 4684891

DOCUMENT-IDENTIFIER: US 4684891 A

TITLE: Rapid magnetic resonance imaging using multiple phase encoded spin echoes in each of plural measurement cycles

DATE-ISSUED: August 4, 1987

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Feinberg; David A.	Berkeley	CA		

US-CL-CURRENT: 324/309; 324/307

Full	Title	Citation	Front	Review	Classification	Date	Reference		Claims	KMC	Draw D.
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Term	Documents
PHASE	2001139
PHASES	411179
ENCOD\$3	0
ENCOD	590

ENCODA	4
ENCODAD	1
ENCODAL	2
ENCODAR	2
ENCODAS	1
ENCODAT	1
ENCODATA	1
(L46 AND (PHASE WITH ENCOD\$3)) .PGPB,USPT,USOC,EPAB;JPAB,DWPI,TDBD.	9

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Search Results - Record(s) 1 through 8 of 8 returned.

☐ 1. Document ID: US 6456071 B1

Using default format because multiple data bases are involved.

L49: Entry 1 of 8

File: USPT

Sep 24, 2002

US-PAT-NO: 6456071

DOCUMENT-IDENTIFIER: US 6456071 B1

TITLE: Method of measuring the magnetic resonance (=NMR) by means of spin echos

DATE-ISSUED: September 24, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Hennig; Jorgen	Freiburg			DE

US-CL-CURRENT: 324/307; 324/309, 324/311

Full	Title	Citation	Front	Review	Classification	Date	Reference		Claims	DOC	Draw D
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☐ 2. Document ID: US 6043654 A

L49: Entry 2 of 8

File: USPT

Mar 28, 2000

US-PAT-NO: 6043654

DOCUMENT-IDENTIFIER: US 6043654 A

TITLE: Multi-volume slicing and interleaved phase-encoding acquisition for 3 D fast spin echo (FSE)

DATE-ISSUED: March 28, 2000

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Liu; Kecheng	Solon	OH		
Xu; Yansun	Solon	OH		
Loncar; Mark J.	Richmond Heights	OH		

US-CL-CURRENT: 324/309; 324/306

Full	Title	Citation	Front	Review	Classification	Date	Reference		Claims	DOC	Draw D
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☐ 3. Document ID: US 5779636 A

L49: Entry 3 of 8

File: USPT

Jul 14, 1998

US-PAT-NO: 5779636

DOCUMENT-IDENTIFIER: US 5779636 A

TITLE: Method of echo volume imaging and MRI system using the same

DATE-ISSUED: July 14, 1998

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Kanazawa; Hitoshi	Nasu-Gun			JP

US-CL-CURRENT: 600/410; 324/309

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	FIG	Drawings
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☐ 4. Document ID: US 5578923 A

L49: Entry 4 of 8

File: USPT

Nov 26, 1996

US-PAT-NO: 5578923

DOCUMENT-IDENTIFIER: US 5578923 A

TITLE: T2 restoration and noise suppression of hybrid MR images using wiener and linear prediction techniques

DATE-ISSUED: November 26, 1996

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Chen; Haiguang	San Francisco	CA		

US-CL-CURRENT: 324/309; 128/925

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	FIG	Drawings
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☐ 5. Document ID: US 5517122 A

L49: Entry 5 of 8

File: USPT

May 14, 1996

US-PAT-NO: 5517122

DOCUMENT-IDENTIFIER: US 5517122 A

TITLE: T2 restoration and noise suppression of hybrid MR images using Wiener and linear prediction techniques

DATE-ISSUED: May 14, 1996

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Chen; Haiguang	San Francisco	CA		

US-CL-CURRENT: 324/322; 324/307

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KMC	Draw. D.
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☐ 6. Document ID: US 5345176 A

L49: Entry 6 of 8

File: USPT

Sep 6, 1994

US-PAT-NO: 5345176

DOCUMENT-IDENTIFIER: US 5345176 A

TITLE: Stabilized fast spin echo NMR pulse sequence with improved slice selection

DATE-ISSUED: September 6, 1994

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
LeRoux; Patrick L.	Gif/Yvette			FR
Hinks; Richard S.	Waukesha	WI		

US-CL-CURRENT: 324/309

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KMC	Draw. D.
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☐ 7. Document ID: US 5315249 A

L49: Entry 7 of 8

File: USPT

May 24, 1994

US-PAT-NO: 5315249

DOCUMENT-IDENTIFIER: US 5315249 A

TITLE: Stabilized fast spin echo NMR pulse sequence

DATE-ISSUED: May 24, 1994

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Le Roux; Patrick L.	Gif/Yvette			FR
Hinks; Richard S.	Waukesha	WI		

US-CL-CURRENT: 324/309; 324/307

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KMC	Draw. D.
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☐ 8. Document ID: US 4684891 A

L49: Entry 8 of 8

File: USPT

Aug 4, 1987

US-PAT-NO: 4684891

DOCUMENT-IDENTIFIER: US 4684891 A

TITLE: Rapid magnetic resonance imaging using multiple phase encoded spin echoes in each of plural measurement cycles

DATE-ISSUED: August 4, 1987

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Feinberg; David A.	Berkeley	CA		

US-CL-CURRENT: 324/309; 324/307

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWC	Draw D
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Term	Documents
CORRECT\$4	0
CORRECT	1001238
CORRECTA	145
CORRECTAB	10
CORRECTABIE	2
CORRECTABJE	1
CORRECTABL	4
CORRECTABLE	9256
CORRECTABLO	1
CORRECTABLT	1
CORRECTABLY	391
(L48 AND (CORRECT\$4 OR COMPENSAT\$4)) .PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD.	8

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Search Results - Record(s) 1 through 5 of 5 returned.

☐ 1. Document ID: US 6043654 A

Using default format because multiple data bases are involved.

L50: Entry 1 of 5

File: USPT

Mar 28, 2000

US-PAT-NO: 6043654

DOCUMENT-IDENTIFIER: US 6043654 A

TITLE: Multi-volume slicing and interleaved phase-encoding acquisition for 3 D fast spin echo (FSE)

DATE-ISSUED: March 28, 2000

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Liu; Kecheng	Solon	OH		
Xu; Yansun	Solon	OH		
Loncar; Mark J.	Richmond Heights	OH		

US-CL-CURRENT: 324/309; 324/306

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	PMC	Draw D.
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☐ 2. Document ID: US 5779636 A

L50: Entry 2 of 5

File: USPT

Jul 14, 1998

US-PAT-NO: 5779636

DOCUMENT-IDENTIFIER: US 5779636 A

TITLE: Method of echo volume imaging and MRI system using the same

DATE-ISSUED: July 14, 1998

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Kanazawa; Hitoshi	Nasu-Gun			JP

US-CL-CURRENT: 600/410; 324/309

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	PMC	Draw D.
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☐ 3. Document ID: US 5578923 A

L50: Entry 3 of 5

File: USPT

Nov 26, 1996

US-PAT-NO: 5578923

DOCUMENT-IDENTIFIER: US 5578923 A

TITLE: T2 restoration and noise suppression of hybrid MR images using wiener and linear prediction techniques

DATE-ISSUED: November 26, 1996

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Chen; Haiguang	San Francisco	CA		

US-CL-CURRENT: 324/309; 128/925

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	FIG	Draw D
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☐ 4. Document ID: US 5517122 A

L50: Entry 4 of 5

File: USPT

May 14, 1996

US-PAT-NO: 5517122

DOCUMENT-IDENTIFIER: US 5517122 A

TITLE: T2 restoration and noise suppression of hybrid MR images using Wiener and linear prediction techniques

DATE-ISSUED: May 14, 1996

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Chen; Haiguang	San Francisco	CA		

US-CL-CURRENT: 324/322; 324/307

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	FIG	Draw D
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☐ 5. Document ID: US 4684891 A

L50: Entry 5 of 5

File: USPT

Aug 4, 1987

US-PAT-NO: 4684891

DOCUMENT-IDENTIFIER: US 4684891 A

TITLE: Rapid magnetic resonance imaging using multiple phase encoded spin echoes in each of plural measurement cycles

DATE-ISSUED: August 4, 1987

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Feinberg; David A.	Berkeley	CA		

US-CL-CURRENT: 324/309; 324/307

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	IPC	Drawings
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NO	8193588
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NOS	774128
NOE	8831
NON	4441246
NONS	479
ZERO	1106766
ZEROES	14561
ZEROS	43499
(L49 AND ("WITHOUT" OR "NO" OR NON OR ZERO OR NONE OR "OFF") WITH (PHASE WITH ENCOD\$3))).PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD.	5

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